

THE UNIVERS OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Ball Horticultural Company

MICCOLS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE THE PHENETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS ARE ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS PIEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY THAT IS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SUPPLIES HIMENT OF VIABLE BASIC SEED OF PHE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE LARRETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR LING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE SURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

VINCA

'Pacifica Burgundy Halo'

In Vestimonn Macrost, I have hereunto set my hand and caused the seal of the Hant Unristy Frotection Office to be affixed at the City of Washington, D.C. this twenty-second day of January, in the year two thousand and nine.

Allert

Attest:

Commissioner Plant Variety Prol

Plant Variety Protection Office Agricultural Marketing Service Agriculturo

of Agriculture

REPRODUCE LOCALLY. Include form number and de	ite on all reprodu	ictions		Form Approved - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE			The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.			
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)			Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER			2. TEMPORARY DESIGNATION OR	3. VARIETY NAME		
Ball Horticultural Company			EXPERIMENTAL NAME C8814D	'Pacifica Burgundy Halo'		
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Co	de, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY		
622 Town Road			(630) 231-3600	PVPO NUMBER		
West Chicago, IL 60185			6. FAX (include area code)	#200700272		
USA	•		(630) 231-2590	FILING DATE		
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, associ		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	April 16,2007		
Corporation		IL	July 27, 1995			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First p Audrey Charles 622 Town Road West Chicago, IL 60185 USA				FILING AND EXAMINATION FEES: 8 4382.00 R DATE 4/16/07 CERTIFICATION FEE: 9 768.00 DATE 10/21/08		
11. TELEPHONE (Include area code) (630) 588-3118	12. FAX (Includ	le area code) 562-7671		13. E-MAIL acharles@ballhelix.com		
14. CROP KIND (Common Name)	16. FAMILY N	AME (Botanical)	18. DOES THE VARIETY CONTA	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)		
vinca	Apocyna	ıceae	☐ YES 🔼 NO	☐ YES 🖾 NO		
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VA	RIETY A FIRST GENERATION HYBRI		SSIGNED USDA-APHIS REFERENCE NUMBER FOR THE		
Catharanthus roseus X	YES	₽ NO	COMMERICALIZATION.	DEREGULATE THE GENETICALLY MODIFIED PLANT FOR		
 CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse) 	CHMENT SUBMI	ITTED	20. DOES THE OWNER SPECIF OF CERTIFIED SEED? (See	Y THAT SEED OF THIS VARIETY BE SOLD AS A CLASS e Section 83(a) of the Plant Variety Protection Act)		
a. 🖾 Exhibit A. Origin and Breeding History	of the Variety		YES (if "yes", answer items 21 and 22 below) NO (if "no", go to item 23)			
b. 🖾 Exhibit B. Statement of Distinctness	,	•		Y THAT SEED OF THIS VARIETY BE LIMITED AS TO		
c. 🖾 Exhibit C. Objective Description of Vari	nh.		NOMBER OF CLASSES?			
d. Exhibit D. Additional Description of the	-			☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED		
e. 🛣 Exhibit E. Statement of the Basis of the	, , , ,	· ·	22. DOES THE OWNER SPECIF	22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		
f. 🗹 Exhibit F. Declaration Regarding Depo:	sit		☐ YES ☐ NO			
g. 🗵 Voucher Sample (3,000 viable untreate that tissue culture will be deposited and			IF YES, SPECIFY THE NUMB	BER 1,2,3, etc. FOR EACH CLASS.		
g. If iling and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)		
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?			24. IS THE VARIETY OR ANY CO INTELLECTUAL PROPERTY	OMPONENT OF THE VARIETY PROTECTED BY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?		
YES □ NO			☐ YES 15 NO			
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				TRY, DATE OF FILING OR ISSUANCE AND ASSIGNED ase use space indicated on reverse.)		
 The owners declare that a viable sample of basi for a tuber propagated variety a tissue culture w 				occordance with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of the entitled to protection under the provisions of Sect			y, and believe(s) that the variety is new, dis	stinct, uniform, and stable as required in Section 42, and is		
Owner(s) is (are) informed that false representate	ion herein can jec	pardize protection and result in penalti	ies.			
SIGNATURE OF OWNER (MA)	les	- 4	SIGNATURE OF OWNER			
NAME (Please print or type)	_		NAME (Please print or type)			
Audrey Charles						

April 11, 2007

CAPACITY OR TITLE

CAPACITY OR TITLE

Patent Agent

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

FAX: (301) 504-5291

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively:
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Sale May 1, 2006 to Ball Seed Company for resale

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

EXHIBIT A

Origin and Breeding History of the Variety 'Pacifica Burgundy Halo'

'Pacifica Burgundy Halo' was developed using the pedigree breeding system. The original developmental cross was made in the fall of 1997 using the commercial variety 'Pacifica Red' and the Vinca species *Catharanthus longifolius*.

The species $Catharanthus\ longifolius$ was originally obtained from the University of Connecticut in 1992 where it was designated as $Catharanthus\ longifolius$ (1) selection 3. This species material was maintained by massing plants to maintain the species germplasm. This material consisted of a segregating population, containing both cream and lavender flowers which contained large white centers. The habit of this species is tall, poorly branched and is late flowering when compared with commercial Vinca varieties. In the spring of 1998, several F_1 plants were pollinated and the seed was massed to produce F_2 seed.

In the spring of 1999 single plant selections were made in the F_2 population and self pollinated to produce F_3 families. The F_2 plants were selected based on a phenotype having a well basal branching habit, early flowering plants, and large flowers containing large white centers.

Several F₃ families were selected in the fall of 1999 which were most uniform for the above characters with the additional selection criteria of dark burgundy colored flowers. All the progeny were advanced by single plant selections which were self pollinated.

Subsequent F₄ to F₆ generations were also advanced using self pollinated single plant selections while continuing to select families with the most uniform previously described characters.

One of the F₇ family designated as C8814D was selected and 64 plants were sib pollinated to produce a stock seed increase. The seed produced from this population was used for the first year of production. C8814D was later designated 'Pacifica Burgundy Halo'.

No variants or off types were observed in either the stock seed increase generation or the subsequent crop.

'Pacifica Burgundy Halo' is stable and uniform after two generations of seed increase which included the stock seed increase and the first commercial crop.

EXHIBIT B

Statement of Distinctness of the Variety 'Pacifica Burgundy Halo'

'Pacifica Burgundy Halo' is most readily distinguished from 'Stardust Orchid' which is the most similar commercial variety available, by petal color, and flower size (diameter).

The petal color of 'Pacifica Burgundy Halo' is deep burgundy (RHS Red-Purple 74A) while that of 'Stardust Orchid' is a medium orchid (RHS Purple-Violet 80A).

The flower diameter of 'Pacifica Burgundy Halo' compared to 'Stardust Orchid' is shown in Table 1 below. Trials were conducted in the Summer 2003 in the field and in the Summer 2004 in the greenhouse. For analysis, ten flowers were measured from ten plants of each variety. In both trials, the flower diameter of 'Pacifica Burgundy Halo' was significantly larger than the comparison 'Stardust Orchid'.

Table 1: Differences between flower diameter (mm) between 'Pacifica Burgundy Halo' and 'Stardust Orchid' grown during Summer Field 2003 and Summer Greenhouse 2004.

Trial	'Pacifica	'Stardust	Sample	t	t	P Value
	Burgundy Halo'	Orchid'	Size	Critical	Statistic	
	Average Flower	Average	Each	$\alpha = .05$		
	Diameter (mm)	Flower	Variety			
		Diameter (mm)				
Summer	60.5 +/- 1.8	48.5 +/- 2.8	100	2.1	-20.9	4.6E-14
Field 2003		,				
Summer	·					
Greenhouse	55.0 +/- 1.1	48.3 +/- 1.7	100	2.1	-19.6	1.3E-13
2004					'	



'Pacifica Burgundy Halo'

'Stardust Orchid'

REPRODUCE LOCALLY. Include form number and date on all reproductions.

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The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY Vinca (Catharanthus spp.)

NAME OF APPLICANT (S) Ball Horticultural Company	TEMPORARY OR EXPERIMENTAL DESIGNATION C8814D	'Pacifica Burgundy Halo'
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)		FOR OPEICIAL USE ONLY
622 Town Road		PVPO NUMBER
West Chicago, IL 60185 USA		200700272

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

In the spaces on the left, enter the appropriate numbers that describe the characteristics of the application variety. On the right, enter the appropriate numbers that describe the characteristics of the most similar comparison variety. Right justify whole numbers by adding leading zeros if necessary. The variety that you choose for comparison should be the most similar one in terms of overall morphology, background and maturity. The comparison variety should be grown in field trials with the application variety for 2-3 location/years (environments) in the region and season of best adaptability. At least one year of trials should be conducted within the United States of America. In general, measurements of quantitative traits should be taken from one trial on 15-25 randomly selected plants or plant parts to obtain averages and statistics that describe a typical field of the variety. (Form technical content last updated April 1992.)

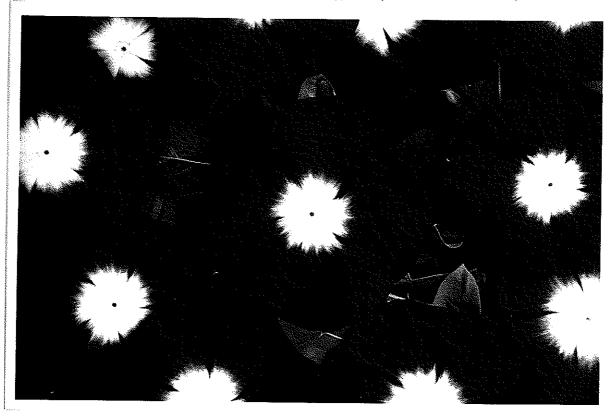
Application Variety Data	Comparison Variety Data		
1. OVERALL PLANT HABIT (at flowering stage):			
Data Collection SiteGuadalupe, CA_USA	Comparison Variety Name <u>'Stardust Orchi</u> d'		
_2 Species: 1 = C. roseus $2 = Other$ C. roseus x C. longifolius	2 Species		
Ploidy: 1 = Haploid 2 = Diploid 3 = Triploid 4 = Tetraploid	2 Ploidy		
1 Life Cycle: 1 = Annual 2 = Biennial 3 = Perennial	Life Cycle		
1 Growth Habit: 1 = Determinate 2 = Semi-determinate 3 = Indeterminate	Growth Habit		
Growth Form: 1 = Upright 2 = Semi-prostrate 3 = Prostrate	1 Growth Form		
2 Flowering: 1 = Very Early 2 = Early 3 = Mid-season 4 = Late 5 = Continuous	2 Flowering Season		
60 Days from Planting to First Flowering			
<u>180_</u> Length of Flowering Season in Days			
356 cm Plant Height at Maturity	<u>28_•_0</u> cm Plant Height		
38_•_1 cm Plant Width at Maturity	26o cm Plant Width		
3 Plant Height Class: 1 = Extra Dwarf 2 = Dwarf 3 = Semi-dwarf 4 = Tall	3 Plant Height Class		
2 Plant Width Class: 1 = Compact 2 = Semi-compact 3 = Spreading/Lax	2 Plant Width Class		
Application Variety Data	Comparison Variety Data		

Application Variety Data	Comparison Variety Data
2. STEM:	
1 Profile: 1 = Straight 2 = Zig-Zag	1 Profile
3_ Branching Pattern: 1 = Single Stem 2 = Few Branches 3 ≃ Many Branches	3 Branching Pattern
28 • 0 cm Stem Length from Base of Stem to Terminal Flower	27 • 0 cm Stem Length (total)
1 Number of Internodes Below First Branch	1 Number of Internodes Below First Branch
6 Number of First Order Branches (From Main Stem)	6 Number of First Order Branches
3 Stem Anthocyanin: 1 = Absent 2 = Along Veins Only 3 = Solid Coloration	3 Stem Anthocyanin
3. FOLIAGE:	
	1 Leaf Type
	1 Leaf Margin
3 Leaf Odor: 1 = None 2 = Mile 3 = Strong	3 Leaf Odor
3 Petiole Anthocyanin: 1 = Absent 2 = Mild 3 = Strong	3 Petiole Anthocyanin
2 Leaf Shape: 1 = Lanceolate 2 = Elliptic 3 = Obovate 4 = Ovate	2 Leaf Shape
Lear Grape. 1 - LanceGlate 2 - Limptic 3 - Glovate 4 - Gyate	Lear Snape
Lanceolate Elliptic Obovate Ovate	
32 mm Leaf Width	<u>27_•_</u> 0mm Leaf Width
75o_0mm Leaf Length	550 mm Leaf Length
LEAF DORSAL SIDE:	LEAF DORSAL SIDE
3 Leaf Color: 1 = Light Green 2 = Medium Green 3 = Dark Green 4 = Other (Describe)	_2 Leaf Color
Color Chart Name RHS Color Chart Reading Green 137A	Color Chart Reading Green 137B
1 Pubescence: 1 = Absent 2 = Light 3 = Heavy	1 Pubescence
2 Luster: 1 = Duil 2 = Shiny	2 Luster
LEAF VENTRAL SIDE:	LEAF VENTRAL SIDE
2 Leaf Color: 1 = Light Green 2 = Medium Green 3 = Dark Green 4 = Other (describe)	2 Leaf Color
Color Chart Name RHS Color Chart Reading Green 138A	Color Chart ReadingGreen 139B_
1 Pubescence: 1 = Absent 2 = Light 3 = Heavy	1 Pubescence
1 Luster: 1 = Dull 2 = Shiny	2 Luster
Application Variety Data	Comparison Variety Data

Application Variety	Data			·			
Application Variety	Data	·		Comparison Vari	ety Data		
4. FLOWER:							
$\frac{1}{2}$ Type: 1 = Single 2 = Semi-Double 3 = Double							
Form: 1 = Flat 2 = Cupped 3 = Other			Form				
Shape: 1	= Round (petals overla	ap) 2 = Intermediate	3 = Star (petals gapped)	3 Shape			
2 Flower Oc	dor: 1 = None 2 = M	ld 3 = Strong		2 Flower Odor			
_1 Pedicel A	nthocyanin: 1 = Abser	t 2 = Faint 3 = Stro	ong	1 Pedicel Anthocyanin			
Numb	per Flowers per Plant			29 Number Flowers per Plant			
55 • 0 n	nm flower Diameter			48_•_4 mm flower Diameter			
<u>4_•_0</u> mm	Orifice Size (including	the opening of the cor	olla tube)	30 mm Oi	ifice Size		
<u>50</u> mm	Ring Width (From Out	side Orifice to Edge of	Color Band)	8 <u>0</u> mm Ri	ng Width		
. <u>30 • 0 n</u>	nm Petal Width (At Wid	fest Point)		25_•_0 mm	25o_0 mm Petal Width		
<u>22_•</u> 0_n	nm Petal Length (From	Ring to Outer Edge)		<u>17_•_0</u> mm	Petal Length		
5. FLOWER COLO	DRS: (Note: Common	Color Charts: RHS=R	oyal Horticultural Society Colour Cha	rt; Munsell=Munsell	Book of Color)		
	Color Verbal Name	Color Chart Code	Color Chart Name		Color Name	Chart Code	
EXAMPLE	Light Blue	106C	RHS				
Petal Color	Burgundy	74A	RHS Red-Purple	Petal Color	Purple-Violet	80A	
Ring Color	White	155B	RHS White	Ring Color	White	155B	
Orifice Color	Yellow	4C	RHS Yellow	Orifice Color	Yellow	4C	
Other Color (describe location or placement)							
6. SEEDS (Measure	e Mature (Dry) Seeds):						
4 Seed Set:	1 = None 2 = Poor	3 = Fair 4 = Good	5 = Excellent	_3 Seed Set			
_4 Seed Coat	t Color: 1 = White 2	!=Tan 3 = Brown	4 = Black 5 = Other	4 Seed Coat C	olor		
			1265 • 0 _{mg} Seed Weight				
check and a suscept included in the distin (most resistant) for e known. (Rate from	tible check for each dis ctness statement in su	ease or insect being to pport of the distinctnes reaction being reported to 9 (most resistant))	possible before applying for protectionsted. When using disease resistances claim. Rate the application variety d. Give the scientific and common nate:	e to describe distinct and the comparisor mes of each diseas	tness, information on the n variety on a scale of 1 (se checks should be most susceptible) to 9	
				1			

^{8.} Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show flower heads of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional comments and photographs in support of this application may be supplied as part of the Exhibits B or D.)

8. Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show flower heads of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional photographs in support of this application may be supplied as part of the Exhibits B or D.)



'Pacifica Burgundy Halo'



'Stardust Orchid'

REPRODUCE LOCALLY. Include form number and edition date on a	Il reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued	2421). The information is held
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Ball Horticultural Company	OR EXPERIMENTAL NUMBER C8814D	'Pacifica Burgundy Halo'
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
622 Town Road	(630) 231-3600	(630) 231-2590
West Chicago, IL 60185	7. PVPO NUMBER	
USA	THE STORISH	#200700272
8. Does the applicant own all rights to the variety? Mark an "X" in the	ne appropriate block. If no, please expl	ain. YES NO
6. Does the applicant own all rights to the variety? Mark an "X" in the	ne appropriate block. I t no, please expl	ain. YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. I	based company? If no, give name of o	country. YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
Faux3	<u> </u>	
a. If the original rights to variety were owned by individual(s), is		
YES	NO If no, give name of coun	itry
b. If the original rights to variety were owned by a company(ies)), is (are) the original owner(s) a U.S. ba	
11. Additional explanation on ownership (Trace ownership from original contents)	inal breeder to current owner. Use the i	reverse for extra space if needed):
The breeding of variety 'Pacifica Burgundy Halo' was conducted greenhouse technical staff, the breeder, Denis Flaschenriem, wor PanAmerican Seed, a division of Ball Horticultural Company. Brights and ownership to the variety resides with Ball Horticultural	ked alone to develop this variety. He way agreement between the employee and	vas and currently is an employee of
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:	•
If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords are considered.		
If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must r	meet one of the above criteria.
The original breeder/owner may be the individual or company who di Act for definitions.	irected the final breeding. See Section	41(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor.	and a person is not required to respond to a collect	ion of information unless it displays a valid OMB

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S)	ADDRESS (Grand and March 200 No. Of the Order and The Order and Order)	
• •	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Ball Horticultural Company	622 Town Road	C8814D
	West Chicago, IL 60185 USA	VARIETY NAME
		'Pacifica Burgundy Halo'
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
Audrey Charles	622 Town Road West Chicago, IL 60185 USA	#200700272

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Date /